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phase jitter audio or speech and encode

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**[PDF]** ► **Multiband prototype waveform analysis synthesis for very low bit rate speech coding**K Yaghmaie, AM Kondozi - ... CONFERENCE ON ACOUSTICS SPEECH AND ... , 1997 - nats-  
www.informatik.uni-hamburg.de... applying the inverse transform, a **phase jitter** is introduced ... produced by ran- domising  
their **phase** in the ... IEEE transactions on **speech** and **audio** processing, 1(4 ...

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**[PDF]** ► **Secure real time speech transmission over the Internet: performance analysis and ...**

M Rocchetti - SUMMER COMPUTER SIMULATION CONFERENCE, 2000 - scs.org

... Subsequently, the installation **phase** takes place and the encrypted ... and based on the  
consideration that **jitter** and disorder ... the temporal order of an **audio** stream ...

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**Oversampled analogue-to-digital conversion for digital audio systems**

TF Darling, MOJ Hawksford - 85th AES convention, LA, preprint, 1988 - aes.org

... Analogue antialiasing \_ters possess nonlinear **phase**, ripple in ... to constrain the  
clock **jitter** to < 100 ... have found applications in **audio**, **speech** and telephony ...

Cited by 5 - Related articles - All 2 versions

**Encoding and decoding of auditory signals in relation to human speech and its application ...**

N Dillier, T Spillmann, UP Fisch, LJ Leifer - International Journal of Audiology, 1980 - informahealthcare.com

... are much sharper than with acoustical stimulation, reflecting less **jitter** in **phase**  
lock histograms ... Signals in Relation to Human **Speech** 155 SOUND SIGNAL AñAñ ...

Cited by 13 - Related articles - All 4 versions

**[PDF]** ► **Integrating networks measurements and speech quality subjective scores for control ...**

S Mohamed, F Cervantes-Perez, H Afifi - IEEE INFOCOM, 2001 - Citeseer

... loss rate, packetization interval, arrival **jitter**, loss distribution ... Section IV exhibits  
the training **phase** of the ... a certain level of **audio/speech** quality [1]. ...

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**Sinusoidal coding**

AWJ Oomen, AC Den Brinker - US Patent App. 09/885,707, 2001 - Google Patents

... the quality of the synthesized **speech**, avoiding the ... coder, an **audio** player, an **audio**  
system, an ... an advan- tageous way of applying **phase jitter** by transmitting ...

All 6 versions

**CHAPTER? SPEECH PROCESSING STANDARDS**

AN Huie - ... speech processing: speech coding, synthesis, and ..., 1992 - books.google.com

... other added analog impairment such as delay distortion, non-linear distortion and  
**phase jitter**), for 2400 b ... 4 shows **audio** quality for **speech** and music ...

Related articles

**Audio quality assessment in packet networks: an inter-subjective neural network model-** ► psu.edu **[PDF]**S Mohamed, F Cervantes, H Afifi - Proceedings of the IEEE 15th International Conference ..., 2001 -  
doi.ieeecomputersociety.org

... complete discussion for packet loss, delay **jitter** and the ... To construct the **audio** database, we chose a variation ... The scoring **phase** is in compliance with the MOS ...  
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### Multimedia systems: An overview- ► [fau.edu](#) [PDF]

B Furht - IEEE Multimedia, 1994 - doi.ieeecomputersociety.org

... Group National Television Systems Committee **phase** alternating line ... include an algorithm for compressing **audio** data at ... has low access latency and low **jitter**. ...

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### [PDF] ► Adaptive delay concealment for Internet voice applications with packet-based time-scale ...

F Liu, JW Kim, CCJ Kuo - ... CONFERENCE ON ACOUSTICS SPEECH AND ... 2001 - Citeseer

... 200 250 300 350 400 450 500 **phase** plot 2 ... delay modeling parameters to generate the delay **jitter** statistics ... FEC-based error control for packet **audio** in the ...

Cited by 53 - Related articles - View as HTML - BL Direct - All 20 versions

### Neurobiologic responses to **speech** in noise in children with learning problems: deficits and ...-

► [northwestern.edu](#) [PDF]

J Cunningham, T Nicol, SG Zecker, A Bradlow - ... Clinical Neurophysiology, 2001 - Elsevier

... If there is excessive neural '**jitter**', which might occur ... It reflects brain-stem-generated, **phase**-locked responses ... CV ratio) was -18 dB sound pressure level ...

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### [PDF] ► Real-Time **Audio** Subjective Quality Assessment in Packet Networks

S Mohamed, F Cervantes, H Affifi - NETWORKING AND INFORMATION SYSTEMS ..., 2000 - Citeseer

... the examples gathered during the operation **phase**, new training ... addition, the delay and the delay **jitter** are also ... is confirmed by most Internet **audio** tools [24 ...

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### The sound manifesto- ► [arxiv.org](#) [PDF]

MJ O'Donnell, I Bismovatyi - Arxiv preprint cs/0007014, 2000 - arxiv.org

... flutter in the **phase** and random **jitter** in the ... to the time-frequency to amplitude-**phase** function, but ... also be characterized by specific **audio** contexts, such ...

Cited by 1 - Related articles - View as HTML - All 7 versions

### Speech-processing strategies designed for children

GE Loeb - Otolaryngology-Head and Neck Surgery, 1997 - Elsevier

... the effect on **speech** information and sound quality during ... to reduce distortion produced by neural **phase** locking is to introduce temporal **jitter** in the ...

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### Neurophysiologic bases of **speech** discrimination

N Kraus, T McGee, TD Carroll, A Sharma - Ear and Hearing, 1995 - journals.lww.com

... of intrinsic versus dynamic properties of sound. ... different stimuli (tones in versus out of **phase**). ... Pathways for **Encoding** Different **Speech** Contrasts Topographic ...

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### [PDF] ► Auditory pathway **encoding** and neural plasticity in children with learning problems

N Kraus - Audiology and Neuro-Otology, 2001 - communication.northwestern.edu

... specific neural synchrony to **speech**-sound elements. ... If there is excessive neural **jitter**, which might ... It reflects brainstem-generated, **phase**-locked responses ...

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### **Speech** coding system and method including adaptive finite impulse response filter

ML Grabb, SR Koch, GW Brooksby, RL Zinser ... - US Patent 6,081,776, 2000 - Google Patents  
... represent extracted parameters of the original **speech** sound. ... LP analysis techniques to original **speech** samples. ... vocoder system comprises an **encoder** component ...  
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### Image encoding and synthesis

WJ Welsh, BA Fenn, P Challenger - US Patent 4,841,575, 1989 - Google Patents  
... 4,841,575 1 2 (c) an **audio** input for receiving ... and during the learning (and transmission) **phase** is consistent ... and 10 showed some registration **jitter**, but this ...  
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### Time-frequency interpolation with application to low rate speech coding

Y Shoham - US Patent 5,577,159, 1996 - Google Patents  
... the corresponding wave-form tends to sound smooth even ... spectral sequence  $Y'(n,K)$  and **phase**  $\phi(m)$  which ... TFI decoding depending on whether the **speech** is voiced ...  
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### Network quality of service monitoring for IP telephony

BV Ghita, SM Furnell, BM Lines, D Le-Foll, EC ... - Internet Research: Electronic Networking Applications ..., 2001 - ingentaconnect.com  
... **Jitter** ... a H.323 conference is classified in streams, as follows: **audio** (coded **speech** ... The call begins with a call signalling **phase** ± signalling messages (Q.931 ...  
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### [PDF] ► Development of a loss-resilient internet speech transmission method

NTL Le, 1999 - Citeseer  
... our contribution to improve the reliability in determining **phase** and periodicity ... an additional time needed to buffer look-ahead **audio** data samples ... 2.1.2 **Jitter** ...  
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RR Rao, T Chen, RM Mersereau - IEEE Transactions on Industrial Electronics, 1998 - iee.org  
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### Method and apparatus for adjusting the sampling phase of a digitally encoded signal in a ...

JK Cheng, NS Lin, M Touniguan, K Suzuki - US Patent 5,400,368, 1995 - Google Patents  
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### [PDF] ► Simulation of FEC-based error control for packet audio on the Internet

M Podolsky, C Romer, S McCanne - IEEE INFOCOM, 1998 - Citeseer  
... While packet reordering and **jitter** can be effectively accommodated with ... lossy, compressed version of the **audio** signal is ... inal bit-stream at a **phase** offset of ...  
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... [0012] [9] WB Kleijn, "**encoding speech** using prototype ... **Speech, Audio Process.**, vol 5, pp. ... X. Sun, F. Plante, B. MG Cheetham, and K. WT Wong, "**Phase** modeling of ...  
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Random **Phase** Noise Generator ... an isolated aspiration preceding a vowel sound. ...  
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JW Seo, SJ Woo, KS Bae ... CONFERENCE ON ACOUSTICS SPEECH AND ..., 2001 - ece.umnassd.edu  
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G.723.1 G ... 704, Digital cellular telecommunication system(**Phase** 2+); Adaptive ...  
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**Cochlear implant system for an auditory prosthesis**

PA Crosby, CN Daly, DK Money, JF Patrick, ... - US Patent 4,532,930, 1985 - Google Patents  
... adjacent the ear to receive data information and power through tuned coil (5) using  
an inductive link (6) from a patient-wearable external **speech** proces- sor (7) ...  
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A Basso, J Ostermann - US Patent 6,177,928, 2001 - Google Patents  
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versatile in **speech** applica- tions. ... diagram of the G.721 CCITT **encoder** [22] is ...  
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MO Hawksford - PREPRINTS-AUDIO ENGINEERING SOCIETY, 1996 - aes.org  
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**phase** modulation[16 ... additional requirement for a DVD-**audio** transport is ...

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**[BOOK]** Telecommunications measurements, analysis, and instrumentation

K Feher, 1997 · books.google.com

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... **Data Phase** ... Sampling and Quantization The sampling rate is determined by the **audio** device. ... at the receiver in order to absorb in part the packet delay **jitter**. ...

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**[BOOK]** Vector quantization and signal compression

A Gersho, RM Gray, 1993 · books.google.com

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**Encoder** 555 15.2 Tree ... applied to signals such as **speech, audio**, images, and ...

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... controlled wavetable-modification instrument and method for generating musical **sound**

AR Strong · US Patent 4,622,877, 1986 · Google Patents

... Kris a real-valued modification **phase** pointer that ... A first operation (**audio** output operation) employs the Jr ... of a random component called "**jitter**", which is ...

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Process for digitizing speech

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... To determine the coefficients and **phase** angles of the ... In the IEEE Transaction on **Audio** and Electracoustics, Vol ... time but at the expense of noise (time-**jitter**). ...

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... psychological testing or programming with mapped patient responses provided to **encoder**.

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... mode, if there is a period where the sound level is ... frame, and thus there will be no **jitter** between stimulus ... of the stimulation pulse, **phase 1** and **phase 2** as ...

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E Douek · Proceedings of the Royal Society of Medicine, 1977 · pubmedcentral.nih.gov

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A Mehaoua, R Boutaba - IEEE International Conference On Acoustics, **Speech**, .... 1999 - Citeseer  
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a decoder's **jitter** tolerance will be ... but by the design of the **phase-lock-loop** ...  
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... **Structured-audio encoding**: As noted ... a seven-speaker playback setup if the **audio** material  
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H Wu, CH Hung, M Gerla, R Bagrodia - ... Symposium on Parallel Architectures, Algorithms, and ..., 1997 -  
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signal FIGURE 8. abrupt degradation of an **audio** signal **jitter jitter jitter** ...  
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**Digital data transcoder with relaxed internal decoder/coder interface frame jitter ...**

DG Morrison - US Patent 5,764,298, 1998 - Google Patents  
... amounts of **jitter j**, (as a **phase lag**) since or ... an **encoder** can determine the **jitter**  
reduce the ... or overflow, videophone-quality pictures including sound can be ...  
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**Processing of the auditory-nerve code for speech by populations of cells in the ...**

MB Sachs, CC Blackburn, B ML X Wang - The Auditory processing of **speech**: from sounds to ..., 1992 -  
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H Wu, M Gerla, R Bagrodia - Proc. Nat. Sci. Council, ROC (A, 2000 - nr.stpi.org.tw

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T Pfeifer, R Popescu-Zeletin - Lecture Notes in Computer Science, 1996 - Springer  
... on a specific service computer, eg **speech** synthesis, while ... 9 **Audio** can be reduced  
in sample size ... from compression loss, and is specifically sensitive to **jitter**. ...  
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... to deal with the actual amount of **jitter** present in ... in case the multimedia signal comprises an **audio** signal and ... For the **phase** <math>|k[i]|</math> of the current frame can ...

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... To shift the pitch of an **audio** signal it is ... be perceived, with the impression of a lower **jitter** frequency. ... would be caused by discarding the **phase**, rather than ...

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**Peripheral encoding of behaviorally relevant acoustic signals in a vocal fish: harmonic and ...**

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... This sound level is within the range expected at a midshipman nest (Bass and ... relative to F0 will also occur at a certain **phase** relative to ... (Any **jitter** would be ...

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**A hybrid approach to the variable speed replay of digital audio**

PS Gaskell - J. Audio Eng. Soc, 1987 - aes.org

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A Heinrich, 2000 - tspace.library.utoronto.ca

... loss of **phase**-locking in frequency coding. ... this technique, distortion cm be introduced to a digitized sound. ... temporarily distorted with a RMS **jitter** of 10 and a ...

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JF Correier, P Royer, DG Cason, JR Uribe - US Patent 5,864,799, 1999 - Google Patents

... decoded frame of **speech** data creates **audio** voids in ... volume of the noise in the **speech** signal at ..., alternatively define a measure of **phase jitter**, timing **jitter** ...

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**Quality VoIP—an engineering challenge**

RJB Reynolds, AW Rix - BT Technology Journal, 2001 - Springer

... important design consideration for dynamic **jitter** buffers is ... allow the transmission of **audio** frequencies up ... **Speech** and music contain many components at higher ...

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**Method and apparatus to determine the frequency and time slot position in a digital ...**

JK Cheng, NS Lin, MH Tourigouan - US Patent 5,491,726, 1996 - Google Patents

... DQPSK Receiver Match Filter for Sync Word 2nd Order PLL Sampling **Phase** Adj. Signal FKJ. 9 Page 6. ... The **audio** codec 30 implements the **speech** A to D and ...

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... A **phase** locked loop (PLL) is used to generate all sample and data timing in both the **encoder** and decoder. ... Timing **jitter** in the sampled **audio** data is ...

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**Neurophysiologic basis for cochlear and auditory brainstem implants-** ► psu.edu [PDF]

AR Moller - American Journal of Audiology, 2001 - ASHA

... FIGURE 3. **Phase** locking of discharges in a single guinea ... because of "synaptic **jitter**." Synaptic **jitter** is a ... **encoding** of rapid changes in sound amplitude by ...

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**[PDF] ► Signal compression based on models of human perception**

N Jayant, J Johnston, R Safranek - Proceedings of the IEEE, 1993 - isip.lzu.edu.cn

... subclass of analog signals such as **speech**, **audio**, and image ... When the terms coding, **encoding**, and decoding are ... 124], [160], differential delay, and **jitter**, as in ...

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**[PDF] ► A 2.4 KBIT/S MELP CODER CANDIDATE FOR THE NEW US FEDERAL STANDARD**

AMCKTE Bryan, GTPBPV Viswanathan - ... IEEE International Conference on Acoustics, **Speech**, ..., 1996 - www-sipl.technion.ac.il

... Fourier magnitudes of the excitation signal, assuming zero **phase**. ... Fourier magnitudes, bandpass voicing, and **jitter** bits are ... **Speech** and **Audio** Process- ing, vol. ...

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F Liu, JW Kim, CCJ Kuo - Society of Photo-Optical Instrumentation Engineers ( ... , 2001 - [netmedia.kjist.ac.kr](#)

... is not preserved, there will be a **phase** jump and a ... T G.723.1 and ISO/IEC MPEG-4

**speech/audio** codec, the impact of network loss and delay **jitter** is somewhat ...

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[Psychophysical evidence against the autocorrelation theory of auditory temporal processing-](#) [► ior.ac.cn](#)

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C Kaernbach, L Demany - The Journal of the Acoustical Society of America, 1998 - [link.ajp.org](#)

... "Phase-locked cortical responses to a human **speech** sound and low ... "Jitter detection:

a brief review and some new experiments," in Psychophysical and ...

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[Cochlear implant prosthesis current switching and power supply.](#)

PA Crosby, CN Daly, DK Money, JF Patrick, ... , 1987 - [freepatentsonline.com](#)

... frame, and thus there will be no **jitter** between stimulus ... at the start of each output

**phase**, improving the ... The **audio** signal is amplified and processed by the ...

[All 2 versions](#)

[Method and apparatus to adaptively control the frequency of reception in a digital wireless ...](#)

NS Lin, R Subramanian, K Suzuki - US Patent 5,581,579, 1996 - Google Patents

... receives each one of the plurality of discrete binary symbols and determines a **phase**

error signal ... The **audio** codec 30 implements the **speech** A to D ...

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**[PDF]** [► Switching to digital](#)

L Chevcat - EBU Technical Review, 1998 - [Citeseer](#)

... circuits - can only offer poor telephone-quality **speech**. ... **audio** and Reed-Solomon

error ... PM **Phase** modulation QPSK Quadrature (quaternary) **phase**- shift keying ...

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D MAX-D - Computer, 2000 - [cs.ucl.ac.uk](#)

... **Audio**. ... Delay < 400ms: including **jitter**. Low loss preferable: loss tolerant encodings

exist. Data rates: **speech** 64Kb/s; "good" music 128Kb/s. Time domain ...

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[Variable speed replay of digital \*\*audio\*\* with constant output sampling rate](#)

GWW McNally - US Patent 4,716,472, 1987 - Google Patents

... of m'er- equal to fv but the '**phase**' information in ... Since all the tunings of **audio**

data are synchronous with ... Clock **jitter** will be generated for all speeds other ...

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**[PDF]** [► Video Browsing Using Cooperative Visual and Linguistic Indices](#)

R Jain, A Gupta, A Hampapur, 1996 - [dtic.mil](#)

... As part of our **Phase II** development, and for ... camera motion, multiple object motions

and camera **jitter**, image flow ... in the **speech** portion of the **audio** track and ...

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[System and method for voice Playout in an asynchronous packet network](#)

G Sugar - US Patent 5,790,538, 1998 - Google Patents

... digitizing **speech** by sampling the sound waves and con- The ... Clock Recovery Module 10 generates a **phase** continuous FIFO ... 2 in order to smooth out **jitter** quency is ...

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### Signal **encode**/decode system

KO Johnson, MW Pflaumer... - US Patent 5,872,531, 1999 - Google Patents

... pre-echo, are subject to sudden **phase** shifts near ... During the **encoding** process, 10

To be inaudible, the ... The processed **audio** or signal becomes encoded to the ...

Cited by 9 - Related articles - All 3 versions

### Longitudinal Digital Recording of **Audio**

RB Warnock - AES preprint, 1976 - acs.org

... code, sometimes known as narrow band **phase** (NB\_) or ... control of a local low **jitter** crystal oscillator. ... amplifiers used should exhibit total **audio** band harmonic ...

Cited by 1 - Related articles

### Device programming

WH Shapiro - Cochlear implants, 2000 - books.google.com

... level of performance during the early post- stimulation **phase**. ... frequency table, order of stimulation, **jitter**, and Q ... means of affecting changes in sound quality ...

Cited by 7 - Related articles - All 2 versions

### System for synchronizing by transmitting control packet to omit blocks from transmission, ...

LA Ehley - US Patent 5,737,531, 1998 - Google Patents

... frame 301c, the video and **audio** streams would be **phase**-shifted and ... are subject to a phenomenon known as "**jitter**." In particular, the **audio** frames 501a ...

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### Flow synchronization protocol- ►ncl.ac.uk [PS]

J Escobar, C Partridge, D Deutsch - IEEE/ACM Transactions on Networking (TON), 1994 - portal.acm.org

... Section IV), plus the protocol initialization **phase** and protocol ... to synchronize two flows, an **audio** stream and ... digitizing of the signal or **encoding** delays for ...

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### Frication noise modulated by voicing, as revealed by pitch-scaled decomposition- ►icau.ac.cn [PDF]

PJB Jackson, CH Shadle - The Journal of the Acoustical Society of America, 2000 - link.aip.org

... performance was evaluated with three kinds of perturbation: **jitter**, shimmer and ... The anharmonic delay the offset **phase**  $\beta$  and the standard ... **Speech Audio Process**. ...

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### Review of the roles of temporal and place coding of frequency in **speech** discrimination

AR Møller - Acta oto-laryngologica, 1999 - informahealthcare.com

... auditory system because of the temporal **jitter** associated with ... of auditory neurons in cat to sound stimulation ... **Phase**-locked response to low-frequency tones in ...

Cited by 1 - Related articles - BL Direct - All 6 versions

### Method and apparatus for recording compressed variable bitrate **audio** information

AAML Bruckers, W De Haan, JL Bakx, LM Van ... - US Patent 6,320,825, 2001 - Google Patents

... variations or jumps may cause interference or **jitter** in the ... 20 is commanded to reproduce an item of **audio** from the ... rials such as dye, alloy or **phase** change, or ...

Cited by 6 - Related articles - All 2 versions

### [PDF] ►Real-time video quality assessment in packet networks: A neural network model

S Mohamed, G Rubino, F Cervantes, H Afifi - ... NATIONAL DE RECHERCHE EN INFORMATIQUE ET .... 2001  
- Citeseer

... reacting to inputs never seen during the training **phase**). ... M, Tanner, J. "The Effects  
of **Jitter** on the ... Watson, A. and Sasse, MA "Evaluating **Audio** and Video ...

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[PDF] ► Adaptive multicarrier modulation: A convenient framework for time-frequency processing in ...  
T Keller, L Hanzo - Proceedings of the IEEE, 2000 - Citeseer

... to-mean envelope fluctuation in OFDM, **phase** noise in ... to their approach, different  
data **encoding** or mapping ... as the new European digital **audio** broadcasting (DAB ...

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